

Please add new claims 46-54.

46. (New) A method for identifying a compound that modulates the activity of NIP45, comprising
providing a indicator composition comprising NIP45 activity;
contacting the indicator composition with a test compound; and
determining the effect of the test compound on NIP45 activity in the indicator composition to thereby identify a compound that modulates the activity of NIP45.

47. (New) The method of claim 46, wherein the indicator composition comprises an indicator cell, wherein said indicator cell comprises NIP45 and a reporter gene responsive to NIP45.

15 48. (New) The method of claim ¹⁴~~47~~, wherein the indicator cell is a lymphoid cell.

17 49. (New) The method of claim ¹⁵~~48~~, wherein the lymphoid cell is a Th2 cell.

16 50. (New) The method of claim ¹⁴~~47~~, wherein the indicator cell is a yeast cell.

51. (New) A method for identifying a compound that modulates an immune response, comprising
providing a indicator composition comprising NIP45 activity;
contacting the indicator composition with a library of test compounds;
selecting from the library of test compounds a compound of interest that modulates the activity of NIP45; and
determining the effect of the compound of interest on an immune response to thereby identify a compound that modulates an immune response.

52. (New) The method of claim ⁵¹~~51~~, wherein the effect of the compound of interest on an immune response is determined by determining the effect of the compound on expression of a Th2-associated cytokine gene.

53. (New) The method of claim 52, wherein the Th2-associated cytokine gene is an interleukin-4 gene.

48

54. (New) The method of claim 51, wherein the effect of the compound of interest on an immune response is determined by determining the effect of the compound on development of T helper type 1 (Th1) or T helper type 2 (Th2) cells.

09192511 111698